

Work Order ID 162480

Tuesday, June 06, 2017 4:57:34 PM

162480

Page 1

Item ID: 646.4002 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: AS350 Wiper Deflector
Start Date: 6/13/2017 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 6/20/2017 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: **DAS 21** Date: JUN 08 2017 Tooling: Date: Run Start ***NR1***
QC: **9-89** Date: SPC (Y/N): Date: Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
646.4000	C1	JUN 14 2017	DAS 6 9-89						
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 646.4002								DAS 28 9-89 JUN 16 2017
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									DAS 6 9-89 JUN 14 2017 DAS 27 9-89
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									DAS 28 9-89 JUN 16 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐				
								OTHER :	

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Item ID: 646.4002 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: AS350 Wiper Deflector
Start Date: 6/13/2017 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 6/20/2017 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 *130* Packaging	Identify as per dwg & Stock Location: _____ Packaging Memo Identify and pack for shipping as per PPP 646.4002 Location : FG102	0.00 0.00							
140 *140* QC Quality Control	QC21- Final Inspection - Work Order Release Memo	0.00 0.00							

DAS 28 9-89 JUN 16 2017

DAS 21 9-89 JUN 16 2017

DAS 21 9-89 JUN 16 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																											
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval																																																							
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																							
Root Cause		FAULT CATEGORY																																																													
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER :	
Misidentified ☐	Past Due ☐																																																														

Picklist Print

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Work Order ID: 162480

162480

Parent Item: 646.4002

646 4002

Parent Item Name: AS350 Wiper Deflector

Start Date: 6/13/2017

Required Date: 6/20/2017

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.12.23 NEW ISSUE DD VERF:JLM
16.01.07 DWG REV.C DD VERF:JLM

IPP REV:B

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
646.3410 *646 3410* LH Wiper Deflector		Manufactured	No			110	Each	18.0000	1	1			
									**				
					<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>						
					cck010	18							
					125083	13							
					97822	5							
646.3411 *646 3411* RH Wiper Deflector		Manufactured	No			110	Each	16.0000	1	1			
									**				
					<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>						
					cck010	16							
					125083	10							
					97823	6							
NAS1149F0332P *NAS1149F0332P* Washer		Purchased	No			110	Each	1,507.000	16	16			
									**				
					<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>						
					GA	275							
					m133709	275							
					ST262	1232							
					m137075	13							
					m137412	1219							

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Shop Packet Print

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Work Order ID: 162480

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Parent Item: 646.4002

646 4002

Parent Item Name: AS350 Wiper Deflector

Start Date: 6/13/2017

Required Date: 6/20/2017

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Purchased

No

110

Each

1,989.000

6

6

MS21042L3

Nut

**

DAS
6

JUN 16 2017

DAS
27

Location

Loc Qty

Loc Code

FP001

79

m135945

79

GA

434

m134360

102

M136665

332

OVER007

1000

m134360

0

m137680

1000

ST303

476

m137321

4

m137495

472

DAS
28
Q-RC

MS27039-1-19

Purchased

No

110

Each

369.0000

2

2

MS27039-1-19

Screw

**

JUN 16 2017

DAS
27

Location

Loc Qty

Loc Code

GA

80

m134134

80

ST280

289

m137361

289

DAS
28
Q-RC

DAS
6
U-89

2

Picklist Print

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Work Order ID: 162480

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Parent Item: 646.4002

646 4002

Parent Item Name: AS350 Wiper Deflector

Start Date: 6/13/2017

Required Date: 6/20/2017

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-18

Purchased

No

110

Each

1,610.000

2

2

MS27039-1-18

Screw

**

DAS 6 9-89

JUN 16 2017

DAS 27 9-89

Location

Loc Qty

Loc Code

GA

237

123522

39

124326

198

over006

1200

124326

1200

ST280

173

124326

173

646.3814

Manufactured

No

110

Each

0.0000

2

2

646 3814

Wiper Bracket

600.1012

600 1012

Sealant PR1425B2 (#654 sem)

**

2
161339

DAS 6 9-89

JUN 16 2017

DAS 27 9-89

Location

Loc Qty

Loc Code

cck017

31

m136838

1

m137321

2

m137371

14

m137699

14

MS24694-S53

Purchased

No

110

Each

253.0000

2

2

MS24694-S53

SCREW

**

DAS 6 9-89

JUN 16 2017

DAS 27 9-89

Location

Loc Qty

Loc Code

ST284

253

113359

253

DAS 28 9-89

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APICAL INDUSTRIES, INC.
dba DART AEROSPACE

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

ENGINEERING CHANGE NOTICE NO.

05304

SHEET 1 OF 1

DWG NO. 646.4000

REV: C

PREPARED BY J. BECKER

DATE: 02/04/16

EFFECT ON DWG
☐ INC. ☒ UNINC.

DWG TITLE: AS350 CABLE CUTTERS KIT

APPROVED BY:

ENGR

MFG

QC

EFF. NEXT ORDER

REASON: REVISED F/N 12.

ECR: N/A

ACTION ITEM:
1. N/A

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER

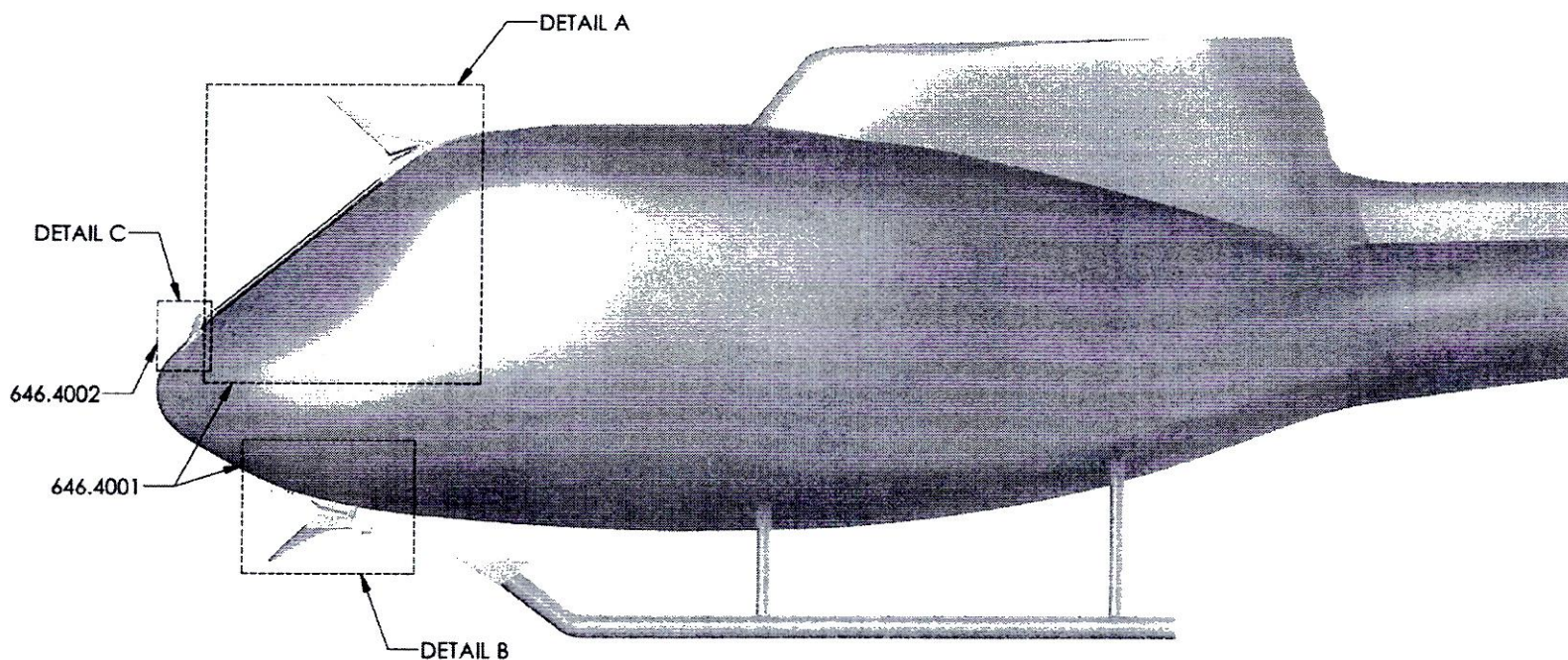
NO. 162480 M15
1706-08

SHEET 1, BOM IS:

12	R	601.1624	8	16	LOCKNUT	MS21042L3	
F/N	TC	PART NUMBER	4006	4005	DESCRIPTION	MATERIAL	SPECIFICATION
			QTY				
DOCUMENTS EFFECTED:					CHANGE CATEGORY	DER REVIEW REQUIRED	
☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM					☐ MAJOR ☒ MINOR	☐ YES ☒ NO	

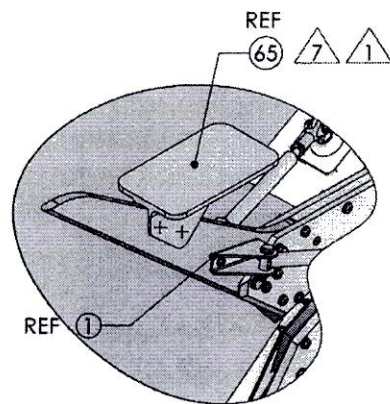
1 2 3 4 5 6 7 8

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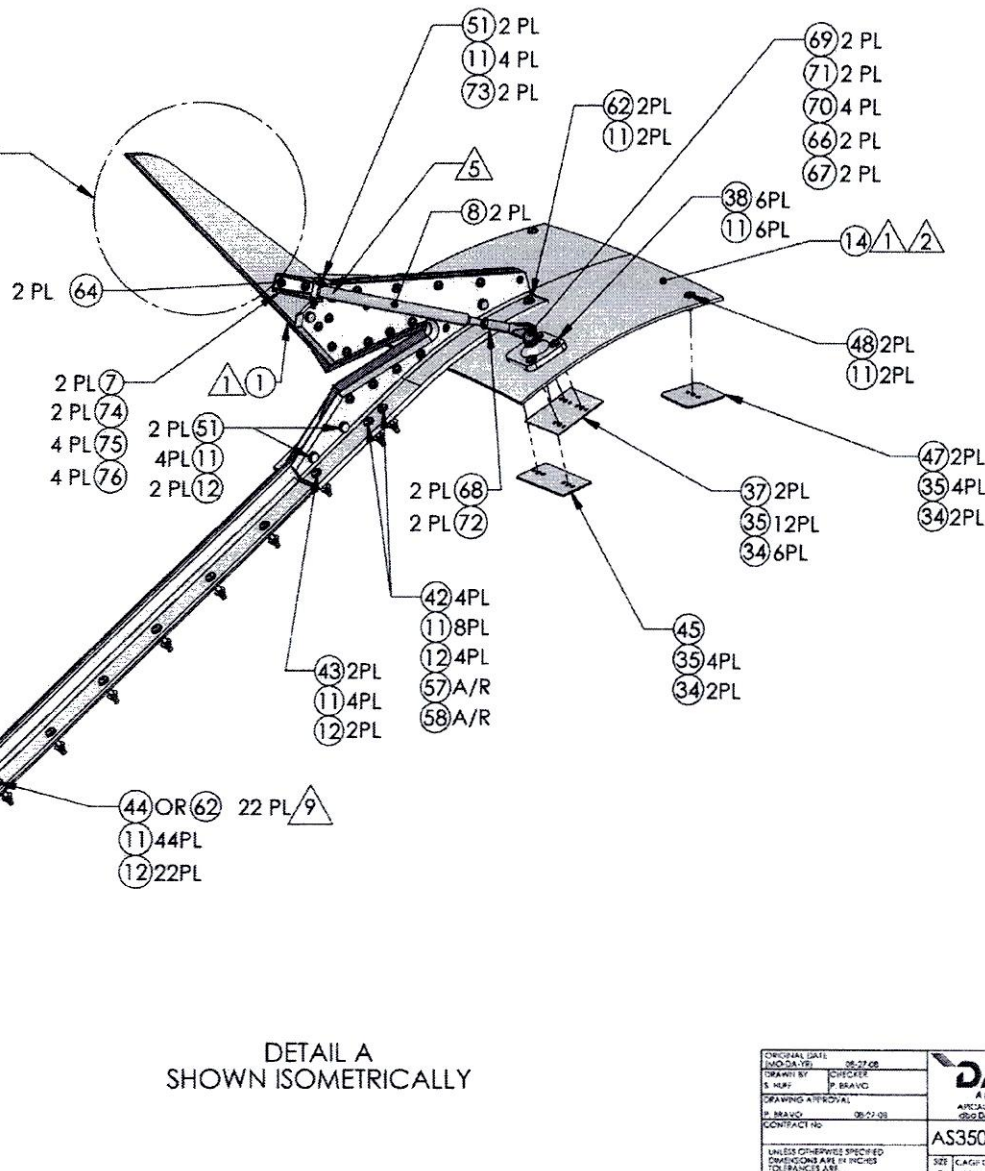
ORIGINAL DATE: 08-21-08		3030 ENTERPRISE CT., SUITE A	
DRAWN BY: CHECKER		VISTA, CA 92081	
S. HUFF		(760) 724-5300	
DRAWING APPROVAL: J. BRAVO		APICAL INDUSTRIES, INC. DBA DART AEROSPACE	
08-21-08			
CONTRACT NO:			
AS350 CABLE CUTTERS KIT			
SIZE: B	CAGE CODE: 07M26	DWG. NO: 646.4000	REV: C
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.010 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SCALE: NONE	
		SHEET 2 OF 5	

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DETAIL D
TYPICAL GPS MOUNT KIT INSTALLATION

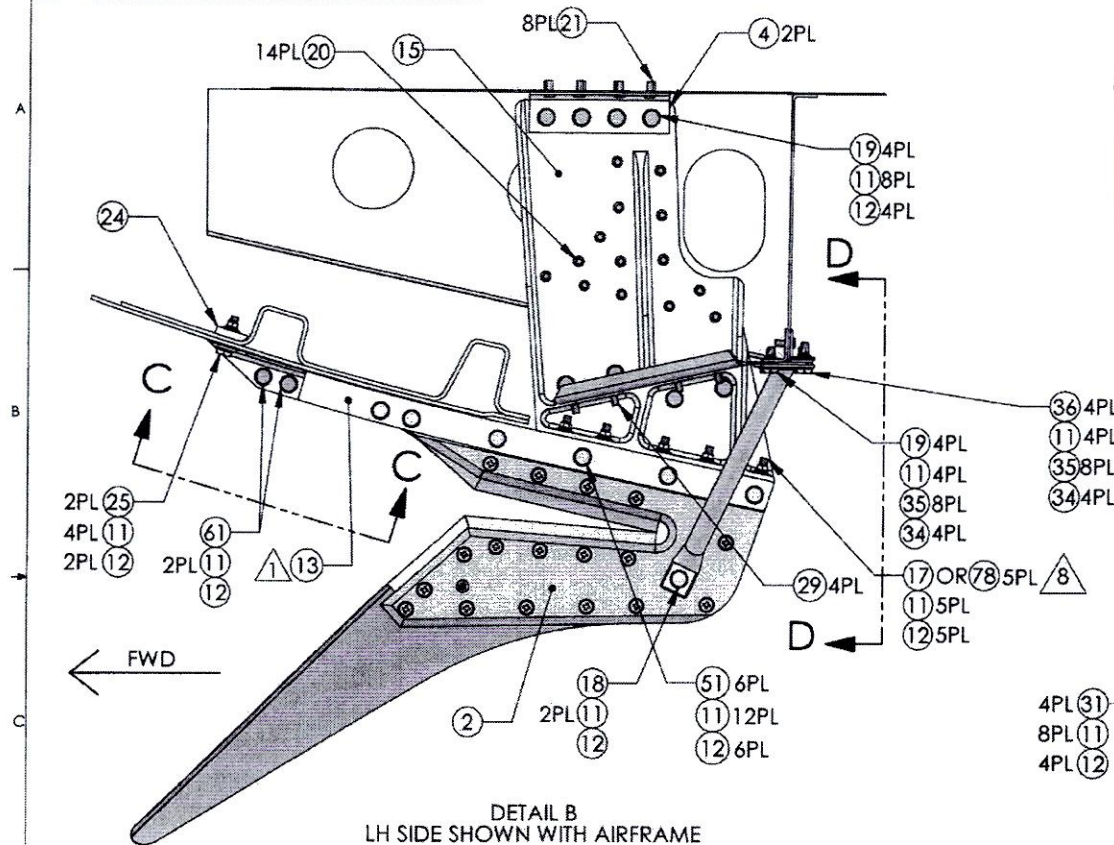
DETAIL D



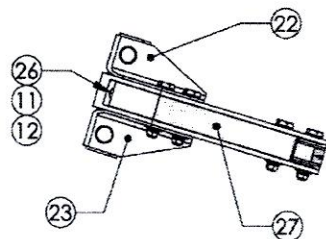
DETAIL A
SHOWN ISOMETRICALLY

ORIGINAL DATE: 08/27/08		3000 ENTERPRISE CT. SUITE A VISTA, CA 92081 (760) 724-5300	
MODIFIED:	CHECKER:	DART AEROSPACE AFICAL INDUSTRIES, INC. DBA DART AEROSPACE	
DRAWN BY: P. BRAVO	DATE: 08/27/08		
DRAWING APPROVAL:	DATE: 08/27/08		
CONTRACT NO:		AS350 CABLE CUTTERS KIT SIZE: CASH CASH QTY: 646.4000 SCALE: NONE SHEET: 3 OF 5	

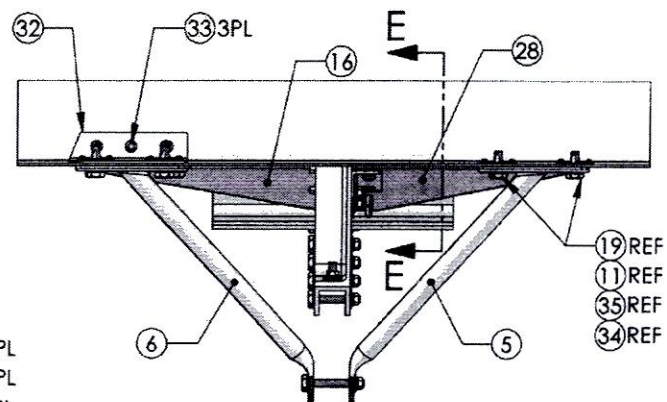
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES
DRA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPRESS
WRITTEN PERMISSION OF APICAL INDUSTRIES DRA DART AEROSPACE IS PROHIBITED.



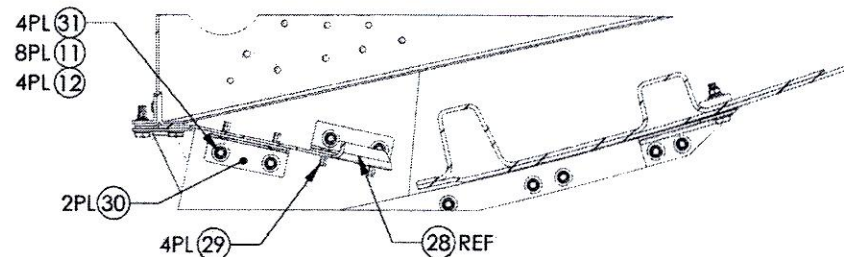
DETAIL B
LH SIDE SHOWN WITH AIRFRAME



SECTION C-C



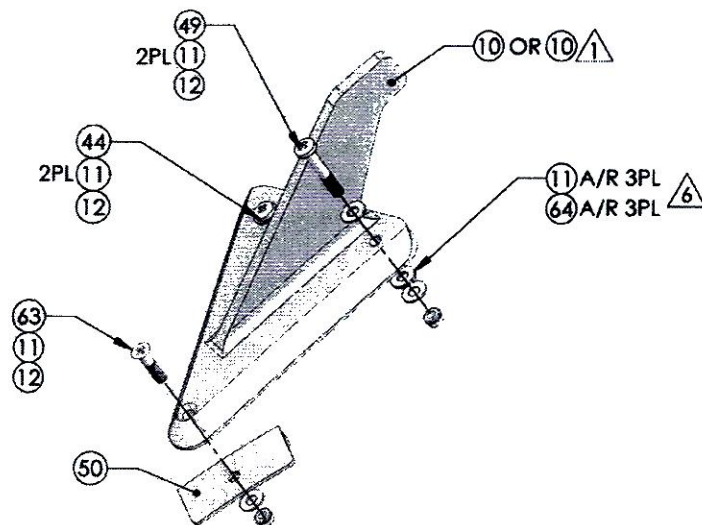
SECTION D-D
CUTTER HIDDEN FOR CLARITY



SECTION E-E

ORIGINAL DATE 10-01-08	3030 ENTERPRISE CT. SUITE A VISTA, CA. 92081 APICAL INDUSTRIES INC. DRA DART AEROSPACE
DRAWN BY S. HUI	CHECKED P. BRAVO
DRAWING APPROVAL P. BRAVO	CONTRACT NO.
DATE B 07M16	DWG. NO. 646.4000
SCALE NONE	REV C
SHEET 4 OF 5	

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DETAIL C
LH SHOWN EXPLODED
RH OPPOSITE

ORIGINAL DATE 08-27-08		3030 ENTERPRISE CT. SUITE A VISTA, CA 92081 (760)-724-5300	
DRAWN BY S. HUFF		CHECKER P. BEAVO	
DRAWING APPROVAL P. BEAVO		APICAL INDUSTRIES, INC. DBA DART AEROSPACE	
CONTRACT NO.		AS350 CABLE CUTTERS KIT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 1 PLACE DECIMALS ±0.10 2 PLACE DECIMALS ±0.05 ANGLES ± 1°		SIX B	DATE CODE 07M26
		DWG. NO. 646.4000	REV. C
		SCALE NONE	SHEET 5 OF 5

REFERENCE ONLY

REFERENCE ONLY

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NOTES:

- △ AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.
- △ INSTALL F/N 14 WITH F/N 52 & 53.
- △ 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR: MCMASTER-CARR P/N 75935A651.
- △ 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE.
VENDOR: R.S. HUGHES P/N 021200-24216.
- △ REUSE FASTENERS FROM F/N 1.
- △ USE WASHERS A/R AS SHIMS TO OBTAIN BEST FITMENT.
- △ AT CUSTOMERS OPTION, INSTALL F/N 45 BY MATCH DRILLING ON TO F/N 1.
- △ INSTALL SHIM IF OEM PROVISIONS ARE INSTALLED ON AIRCRAFT. REMOVE SHIM LAYERS TO ACHIEVE CORRECT SIZE. MATCH DRILL HOLES. USE F/N 78 SCREW IN PLACE OF F/N 17 SCREW.
- △ NEWER INSTALLATIONS ON AIRCRAFT WITH UPDATED CANOPY MAY REQUIRE DIFFERENT LENGTH SCREWS. USE F/N 52 TO REPLACE F/N 44 & F/N 26 IN PLACE OF F/N 41 WHEN NECESSARY.

UNINCORPORATED ECN(S)

05304

	5		5		5	78	601.3875	SCREW		MAGNABOND 6398 PART A
	1		1		1	77	646.9410	SHIM		△
			4		4	76	601.2764	WASHER		NAS1149N432P
			2		2	75	601.2973	LOCKNUT		MS21042-08
			2		2	74	601.2988	SCREW		MS27039-0813
			2		2	73	601.2943	LOCKNUT		MS21042-3
			2		2	72	601.3128	NUT		AN316C4R
			2		2	71	601.3209	LOCKNUT		MS21042A
			4		4	70	601.2638	WASHER		NAS1149P432P
			2		2	69	601.2669	BOLT		ANAC7A
			2		2	68	601.3119	CLEVIS		AN665-34R
			2		2	67	601.3121	EYE BOLT		AN664-SA
			2		2	66	650.9201	EYE BRACKET ASSY		
	REF	REF		REF	65	647.5701	GPS MOUNT KIT			△
				2	64	601.3151	WASHER			NAS1149P330P
			2		63	601.2911	SCREW			MS24694553
		24		24	62	601.2637	SCREW			MS27039 1-16
	2		2		2	61	601.2763	BOLT		AN3-12A
			1		1	60	646.3913	SHIM		
			4		4	59	646.3912	SHIM		
			1		1	58	646.3911	SHIM		
			4		4	57	646.3910	SHIM		
			5		5	56	600.1013	PRIMER		
		8 FT		8 FT	55	600.0129	VHB TAPE			
		1	1		1	54	600.1012	SEALANT		PR-1025 CLASS B
		1		1	53	600.0991	MAGNABOND 6398 PART B			△
		1		1	52	600.0990	MAGNABOND 6398 PART A			△
	6		10		10	51	601.2826	BOLT		AN3-11A
				2		50	646.3814	WIPER BRACKET		
				2		49	601.2910	SCREW		MS27039-1-18
		2		2		48	601.1365	SCREW		MS27039-1-10
		2		2		47	646.3719	DOUBLER		
			2		2	46	646.3718	CUSTOM WASHER		
		1		1		45	646.3717	DOUBLER		
		22	2	22		44	601.1948	SCREW		MS27039-1-19
		2		2		43	601.1952	SCREW		MS27039-1-20
				4		42	601.1956	SCREW		MS27039-1-21
AC06	AC05	AC04	AC03	AC02	AC01	FIND #	PART #	DESCRIPTION	MATL	SPEC.

REV	DESCRIPTION	DATE	APPROVED
A	INCORPORATED ECN 02775, 02811, 02718 & 02745	02/05/2015	P. BRAVO
B	INCORPORATED ECN 02846, 02879 & 04751	10/04/2015	P. BRAVO
C	INCORPORATED ECN 02859	09/02/2015	P. BRAVO

		2		2	41	601.2829	SCREW	MS24694554		
		2		2	40	601.2831	RIVET	MS20426ADS-7		
		1		1	39	646.3716	GAUGE BRACKET			
		6		6	38	601.1953	SCREW	MS27039-1-12		
	2			2	37	646.3715	STRUT DOUBLER			
	2	2		2	36	601.2824	BOLT	AN3-SA		
12	36			36	35	601.2277	RIVET	CC89445-3/2		
6	18			18	34	600.0795	NUTPLATE	MS21047-3		
3	3			3	33	601.2565	RIVET	MS2047BADS-7		
1	1			1	32	646.3813	STRUT BRACKET			
4	4			4	31	601.2822	BOLT	AN3-SA		
2	2			2	30	646.3812	GUSSET BRACKET			
8	8			8	29	601.2564	RIVET	MS2047BADS-6		
1	1			1	28	646.3714	GUSSET			
	1	1		1	27	646.3610	FILLER			
	3	3		3	26	601.2830	SCREW	MS24694555		
	2	2		2	25	601.2825	BOLT	AN3-6A		
	1	1		1	24	646.3811	RADIUS BLOCK			
	1	1	1	1	23	646.3712	CLIP			
	1	1	1	1	22	646.3711	CLIP			
8	8			8	21	601.2832	RIVET	MS2047BADS-5		
14	14			14	20	601.2020	RIVET	CR3313A-3		
4	6	4	6	10	19	601.2823	BOLT	AN3-6A		
	1	1	1	1	18	601.2827	BOLT	AN3-13A		
	5	5	5	5	17	601.2912	SCREW	MS24694551		
1	1			1	16	646.3713	GUSSET			
1	1			1	15	646.3210	SUPPORT			
	1	1		1	14	646.3710	DOUBLER			
	1	1	1	1	13	646.3110	CHANNEL			
14	10	8	53	6	61	12	601.1624	LOCKNUT	MS21042L-5	
16	32	18	120	16	144	11	601.1607	WASHER	NAS1149P432P	
				1	10		646.3410	LH WIPER DEFLECTOR		
				1	9		646.3411	RH WIPER DEFLECTOR		
		2		2	8		647.7703	STRUT ASSY		
		2		2	7		647.0112	STRUT BRACKET		
	1	1		1	6		646.3511	STRUT		
	1	1	1	1	5		646.3510	STRUT		
2	2			2	4		646.3810	BRACKET		
		1		1	3		646.2910	DEFLECTOR		
	1	1	1	1	2		646.3001	LOWER CUTTER ASSY		
		1		1	1		646.3301	UPPER CUTTER ASSY		
X							646.4006	LOWER CUTTER FIXED PROVISIONS		
	X						646.4005	LOWER CUTTER REMOVABLE PROVISIONS		
		X					646.4004	FIXED PROVISIONS KIT		
			X				646.4003	CABLE CUTTERS KIT WITHOUT FIXED PROVISIONS		
				X			646.4002	ASS350 WIPER DEFLECTOR KIT		
					X		646.4001	ASS350 CABLE CUTTERS KIT		
AC06	AC05	AC04	AC03	AC02	AC01	FIND #	PART #	DESCRIPTION	MATL	SPEC.

QTY		PARTS LIST	
NEXT ASSY (S)		ORIGINAL DATE: 08-27-08 DRAWN BY: J. RUFF CHECKED BY: P. BRAVO DRAWING APPROVAL: P. BRAVO REVISION: 01	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS: 0.005 3 PLACE DECIMALS: 0.001 ANGLES: 0.001		DART 3030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760)-724-5300 APICAL INDUSTRIES INC. 4800 16th AVE. AIRCRAFT AS350 CABLE CUTTERS KIT REV C SCALE: NONE SHEET 1 OF 5	

Work Order ID 162480

Tuesday, June 06, 2017 4:57:34 PM

162480

Page 1

Item ID: 646.4002

Accept

N900040100

Revision ID:

Setup Start *NS1*

Item Name: AS350 Wiper Deflector

Stop *NS2*

Start Date: 6/13/2017 Start Qty: 1.00

1

Cust Item ID:

Required Date: 6/20/2017 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan:

Date: JUN 08 2017

Tooling:

Date:

Run Start *NR1*

QC:

Date:

SPC (Y/N):

Date:

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
646.4000	C1								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 646.4002								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									

JUN 14 2017

CB

JUN 12 2017

United States Of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate

Number SR02180LA

This Certificate issued to Apical Industries, Inc. dba Dart Aerospace
3030 Enterprise Court, Suite A
Vista, CA 92081

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified herein meets the airworthiness requirements of Part 27 of the Federal Aviation Regulations.*

**Certification basis is set forth in Type Certificate Data Sheet H9EU.*

Original Product Type Certificate Number: H9EU

Make: Eurocopter France

Model: AS350 C, D, D1, B, B1, B2, BA, B3

Description of Type Design Change: Installation of a Cable Cutter Kit in accordance with FAA approved Apical Master Document List, MD350-61, Revision A, dated November 25, 2008, or later FAA approved revision.

Limitations and Conditions: The installation should not be incorporated in any aircraft unless it is determined that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of the aircraft. The approval of this modification applies to the above noted aircraft model series only. This approval requires the inspections and overhaul schedules to be performed as mandated by Apical Industries, Inc.'s Instructions for Continued Airworthiness, ICA350-61, Revision N/C, dated November 20, 2008, or later FAA accepted revision. A copy of this STC must be included in the permanent records of the modified aircraft. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: May 21, 2008

Date reissued: August 7, 2014

Date of issuance: December 16, 2008

Date amended:

By direction of the Administrator



Haifa Haj-Eid
(Signature)

Haifa Haj-Eid
Supervisor, Technical and Administrative
Support Staff
Los Angeles Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.